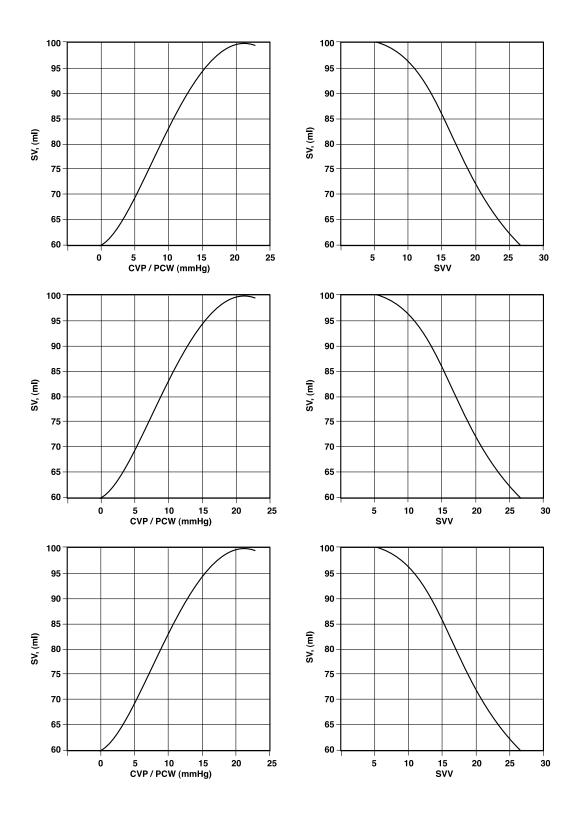
JOSEPH MERCY HEALTH SYSTEM A Member of Trinity Health	ST. JOSEP ST. JOSEP SEVER	PH MERC PH MERC RE SEI	CY ANN ARBOR CY LIVINGSTON CY SALINE <b>PSIS CLINICAL</b> _ ICU admission Date: _							
Please complete the following:       *Septic Shock defined as:         • Severe sepsis or septic shock* diagnosis: Date:       Time:         • Patient transferred from (unit or hospital):       SBP less than 90mmHg or 40mmHg         • Patient was identified as having severe sepsis or septic shock:       ED       Floor       ICU Admission       During ICU Stay         • Decision to move to comfort care in first 24 hours after diagnosis       Yes       No       **Vasopressor unresponsive defined as:         • ICU discharge:       Date:       Time:       Time:       Requiring vasopressors after fluid resuscitation completed.										Hg or 40mmHg ne or MAP less than kg fluid bolus <b>ponsive defined as:</b> ors after fluid
Sepsis Daily Goals		Dateto to 0-1 Hours		1-6 Hours		6-24 Hours			Date	
										to
										24-72 Hours
<ol> <li>Goal directed therapy achieve increased O2 CVP 8-12mmHg on veri 12-15mmHg MAP greater than 65m ScvO2 greater than or to 70%</li> <li>Blood Glucose 90-140</li> <li>Urine output greater the ml/kg/hour</li> <li>In patients with acute lo or ARDS; Yes No Patient on mechanical  PaO2 / FiO Yes No Is tidal volu 6ml/kg of id weight in fir hours?</li> <li>Yes No Are the stat plateau insp pressures lo 30cmH2O i hours?</li> </ol>	e delivery: ent nmHg r equal 0 mg/dl han 0.5 lung injury I ventilator 2 ratio me leal body rst 24 tic or piratory ess than	Yes No Yes No	Initial Labs: serum lactate, additional labs as ordered by physician Serum lactate drawn within 6 hours? Blood Cultures X 2 Time 1: Time 2: Other Cultures: Establish IV access Volume resuscitate: initial 20ml/kg over 30 minutes then additional boluses as needed per order Time 20 ml/kg bolus infused Broad Spectrum Antibiotic-start after obtain blood culture (see Infonet under Pharmacy Guide to Antimicrobial Therapy) Time antibiotic hung Source Control	Resuscita Yes No Yes No Yes No Record th	Severe Sepsis ation Algorithm Was initial lactate greater than 4mmol/L? Was patient hypotensive after initial fluid bolus? CVP placed If no, why? Time CVP placed (record first CVP reading prior to x-ray confirmation) he <b>FIRST TIME</b> the is achieved: CVP 8-12 mmHg on vent 12-15 mmHg Optimized stroke volume (optional) MAP greater than or equal to 65 mmHg SCVO <sub>2</sub> greater than or equal to 65% StO <sub>2</sub> greater than or equal to 75% (optional) Assess for risk factors for abdominal compartment syndrome	Yes No Yes No	Is patient or vasopresson than 6 hours Was patient for Eligibility Activated Pr (Xigris) – (se under Pharr Information to pharmaci Was patient Activated Pr If Xigris adm Start Time: Considered Hydrocortise if vasopress unresponsiv If hydrocorti administere 50mg every Start Time: Consider Va for refractor shock	r at greater s assessed for rotein C ee Infonet macy-Drug or speak st) eligible for rotein C? hinistered, one or re** sone d, provide 6 hours	Yes No NA	Confirm Infectious Source Re-assess need for broad spectrum antibiotics based on culture reports. Was the organism that was identified sensitive to the initial antibiotic? Discontinue Vancomycin if appropriate D/C or taper steriods if vasopressors off Re-evaluate need for invasive lines and tubes Nutrition Therapy
Signature, Nu	urse									
	urse									
Pr	nysician									



## **NORMALS**

 $SV = 60-100 \text{ ml / beat} \\ SVI = 25-45 \text{ ml / M}^2 \\ SVV = less than 15\% \\ CI = 2.5-4.0 \text{ L / min / m}^2 \\ CO = 4-8 \text{ L / min} \\ \end{cases}$ 

## SV Optimized =

200-500 ml bolus over 10 minutes with SV / SVI / CI less than 15% change

## How to Optimize SV / SVI / CI

- 1) Plot initial SV and (CVP or SVV)
- 2) Give 200-500 ml isotonic fluid bolus over 10 minutes
- 3) Plot post bolus SV and (CVP or SVV)
- 4) If greater than 15% change, repeat step 2 until no longer see a greater than 15% change in SV / SVI / CI

A central line should be placed if a patient requires vasopressors for greater than 2 hours and/or a dose of greater than 10 mcq / min of Levophed

or

100 mcq / min of phenylephrine